

Patent Appliation of

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For

Dry Ice Pouch

BACKGROUND OF FIELD OF INVENTION

This invention is in the field of preserving frozen foodstuff. More specifically, it is a) keeping frozen food stuff intended for more or less immediate consumption in frozen state, in optimal frozen state from the time it is sold until the time it is actually consumed; and b) transporting or storing frozen foodstuff wherein dry ice in some form is typically used for said transport activity.

BACKGROUND OF PRIOR ART

Typically, when someone wants to preserve some frozen food stuff during transport, they will use a freezer, an ice box, or dry ice.

A freezer works well for carrying a large quantity of frozen foodstuff, such as when delivery trucks deliver frozen foods to grocery stores, but does not work very well in smaller scale, such as when someone is taking purchased frozen foodstuff from the grocery store to home, or when someone orders an order of a frozen dessert such as Dippin' Dots ice cream to go. It is also very costly and difficult to maintain very low temperatures, such as can be achieved by use of dry ice.

An ice box is more often used as a substitute for a refrigerator, to keep beverages cold, than to keep frozen foodstuff frozen, because said ice box contains melting ice which not cold enough to maintain the kind of temperature which is optimal for preserving frozen foodstuff at a temperature optimal for preserving said frozen foodstuff. But it has the advantage over freezers, in that it is small and does not require a power source.

Dry ice is often used to transport ice cream cakes, packages of frozen foods, and similar frozen foodstuffs, but carries with it the inherent dangers of accidentally causing frost bite on skin that may come in contact with said dry ice, and if the frozen foodstuff is meant for consumption, if loose pieces of dry ice gets mixed into the foodstuff, it can become hazardous to eat said foodstuff with dry ice particles. For example, Dippin' Dots ice cream requires very cold temperature, and is transported in blocks of dry ice, but when you order it at a stand or at a McDonald's, they do not provide any dry ice presumably because of this hazard.

SUMMARY

This invention comprises dry ice completely enrobed in paper or other porous outer covering, enabling safe handling of said dry ice near frozen foodstuff, whether meant for consumption in frozen form, or for normal storage and transportation needs for frozen foodstuff.

DRAWING FIGURES

Figure 1 drawing shows a dry ice pouch, comprising porous paper pouch completely enrobing dry ice.

Figure 2 drawing shows said assembly embedded in a serving of Dippin' Dots ice cream, enabling said serving to remain in optimal serving condition for a period of time greater than if said serving was served without said assembly

Part Numbers

1. An assembly referred to as a dry ice pouch
2. Paper or other porous material
3. Dry ice fully enrobed in said paper or porous material
4. The assembly referred to as a serving of Dippin' Dots ice cream with dry ice pouch contained therein to preserve frozen state of said Dippin Dots ice cream after being served to a customer

DESCRIPTION OF PREFERRED EMBODIMENT

The preferred embodiment comprises the type of paper-like material used to encase silica gel as a desiccant, wherein dry ice is contained by said paper-like material in the place of silica gel, and referred to as a dry ice pouch.

The dry ice pouch once deployed is suitable inclusion within frozen foodstuff, to keep said foodstuff suitably frozen, especially when said foodstuff comprises loose elements and is required to be maintained at a substantially below freezing temperature, for example Dippin' Dots ice cream.

The dry ice pouch is also suitable for use by a grocery store and similar retailers and wholesalers of frozen foodstuff, to provide to customers who wish to keep their frozen foods frozen while said foodstuff they purchased or ordered is in transit.

The dry ice pouch should be manufactured and sent to their users in a form that prevents the dry ice from completely sublimating before they can be deployed, since dry ice is sealed in, such sublimation would render the dry ice pouch useless. For example, dry ice pouches can be shipped in bundles in a container that is typically used to ship regular dry ice.

OPERATION OF PREFERRED EMBODIMENT

Dry ice pouches can be stored in a dry ice pouch container that minimizes sublimation of the dry ice, and a person who is putting frozen foodstuff in a foodstuff container for a

customer can reach into said dry ice pouch container to grab some dry ice pouches, and throw them in the said foodstuff container along with said frozen foodstuff. Since there is no direct contact between skin and dry ice, the dry ice pouches are safe to handle directly with the hands.

A stand selling a frozen dessert such as Dippin' Dots ice cream, may have along side said frozen dessert, some dry ice pouches, and upon a customer ordering said frozen dessert, said dry ice pouches may be inserted singularly or in multiples at the bottom of a clear plastic container used to serve said frozen dessert, whereupon the said frozen dessert served will not melt as quickly as it would have otherwise melted without said dry ice pouches being placed in amidst particles of said frozen dessert within said clear plastic container.

ALTERNATE EMBODIMENTS AND OPERATIONS

While a relatively small pouch similar to that used for desiccants is contemplated, with the difference that it is dry ice which is placed in a pouch rather than silica gel, it is also possible to make said pouch larger for cases when the frozen foodstuff to be protected from melting is larger. For example, it is possible to encase one pound of dry ice in pebble form, and fully encase it in reusable heavy canvass cloth pouch, and utilize this form of dry ice pouch to keep a large frozen fish from melting, without the risks and inconveniences inherent in handling dry ice directly.